التفوق

In Math

الصف الثانى الابتدائى

الفصل الدراسي الأول

prepared by

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للسادة الزملاء سعر المذكرة بدون اسم أو علامة مائية 50 جنيهًا

collecting & Representing Data

Graphs:

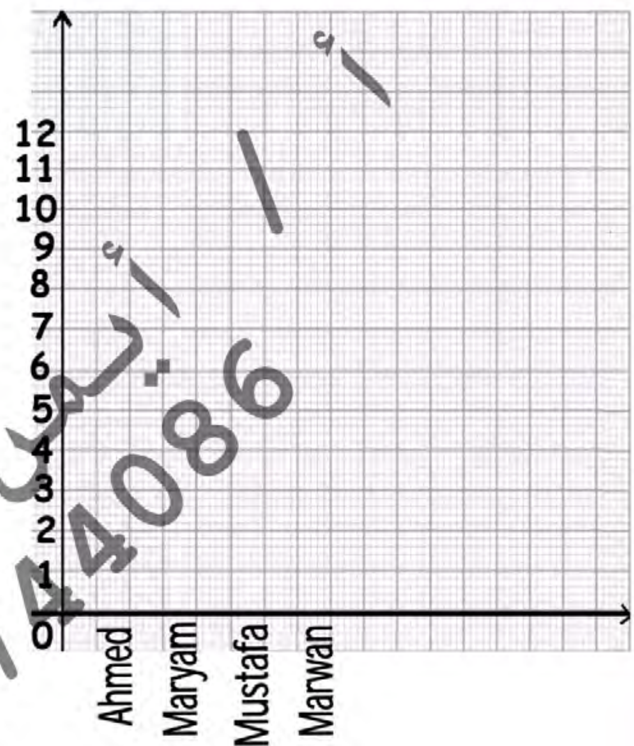
They are tools that help us to compare parts of data or information.

Bar graph: It uses bars to show the collected data.

Example:

This table shows the ages of Ahmed, Maryam, Mustafa and Marwan.
Draw a bar graph to represent these data.

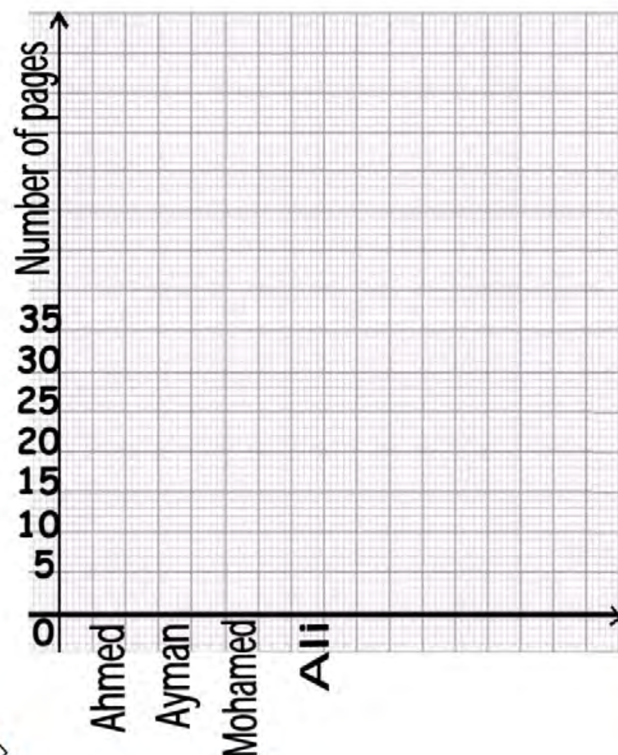
Name	Age
Ahmed	8
Maryam	11
Mustafa	6
Marwan	12



Example:

Ahmed, Ayman, Mohamed and Ali entered a library. The table shows the number of pages red by each of them.
Draw a bar graph to represent these data.

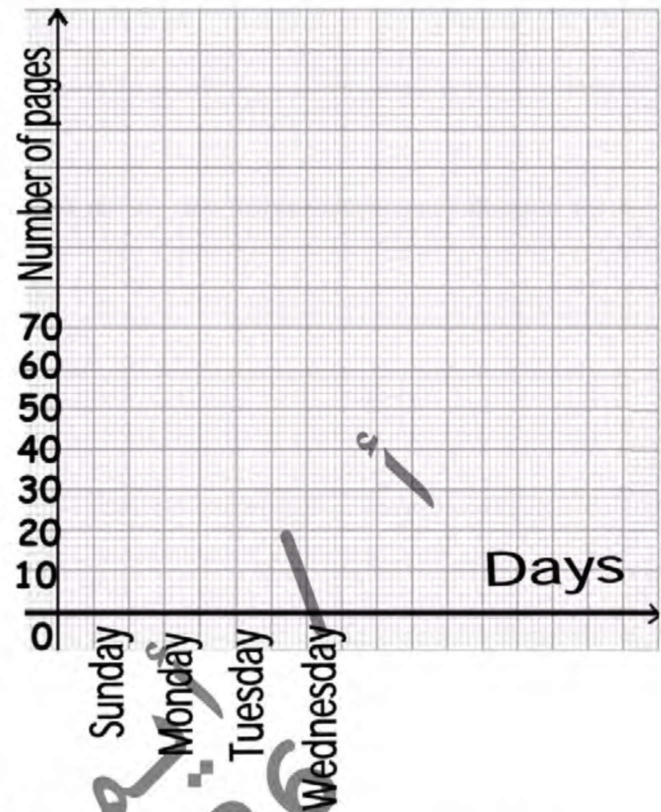
Name	Age
Ahmed	35
Ayman	15
Mohamed	25
Ali	20



Example:

Ayman studied this week a number of pages in math. The table shows the number of pages red everyday. Draw a bar graph to represent these data.

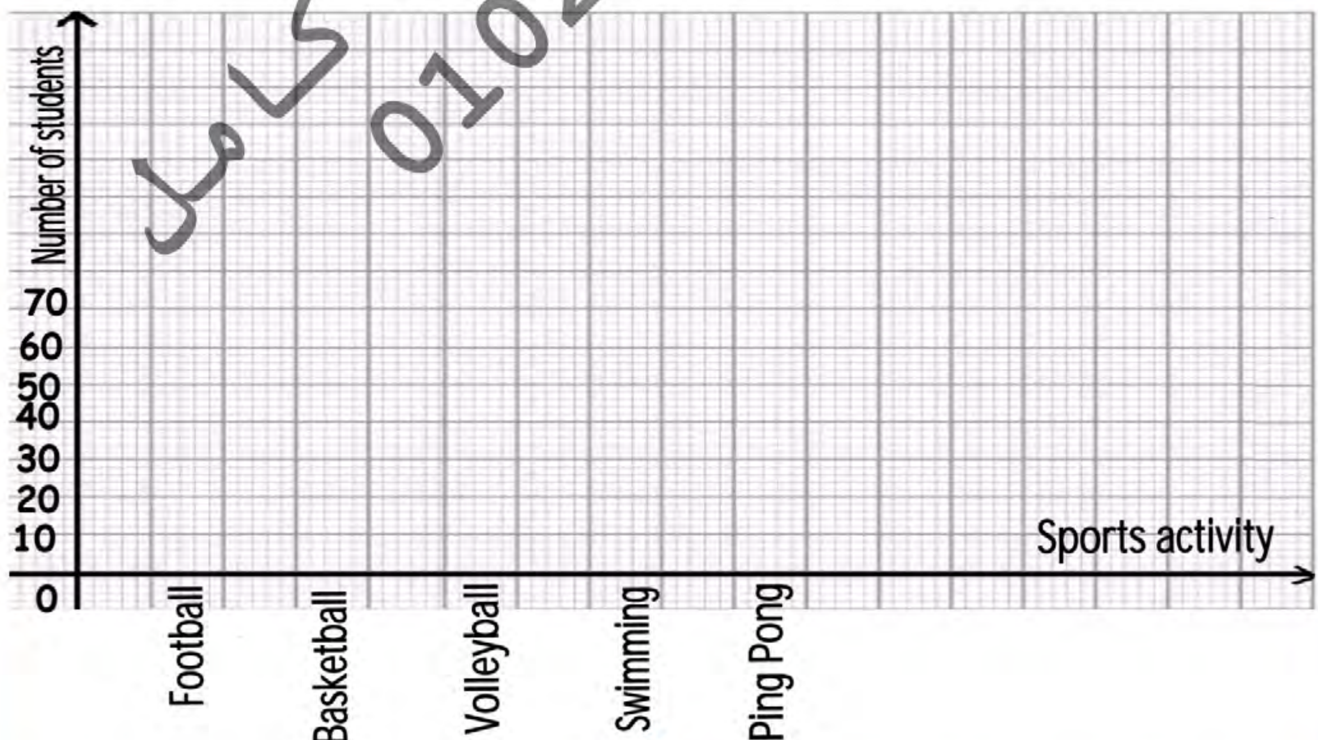
Day	No. of pages
Sunday	20
Monday	40
Tuesday	60
Wednesday	70



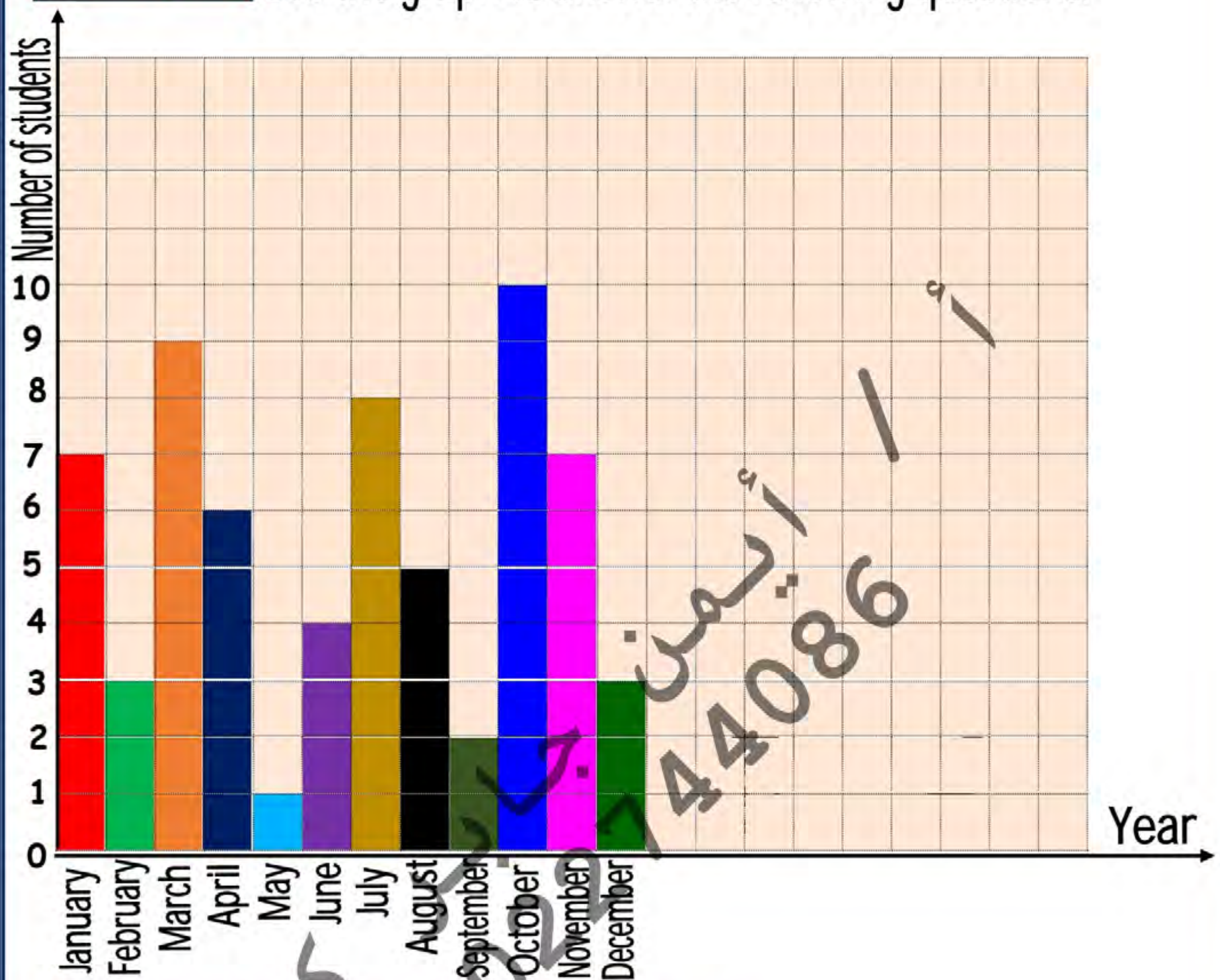
Example:

The table shows some of the sports activities for a group of students in grade 2 in a school. Analyze the data to know each student's favorite activity.

Sports activity	Football	Basketball	Volleyball	Swimming	Ping Pong
Number of students	30	40	50	20	10



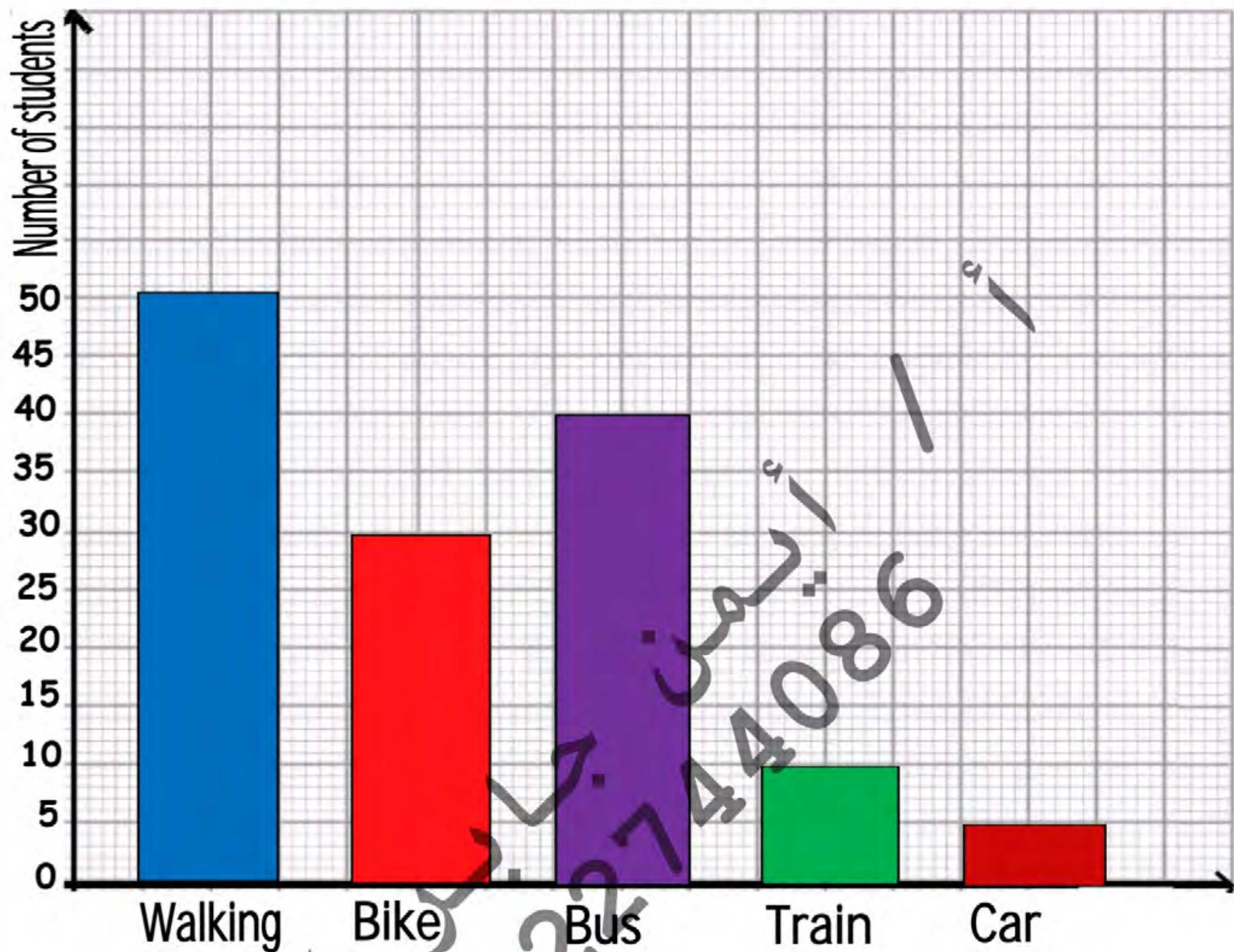
Example: Use the graph to answer the following questions:



Answer the following questions:

1) The month with the big number of birthdays is ....
2) The month with the small number of birthdays is ....
3) The month that has 7 birthdays is ....
4) The number of students that their birthday in January = ...
5) The number of students that their birthday in May = ...
6) The number of students that their birthday in March = ...
7) The number of students that their birthday in October = ...
8) The number of students all together that their birthday in July = ...

Example: *A group of students at Dar Al Kawthar School prepared a graph showing how they got to school.*



- How many students go by car?....................
- How many students go by bike?...................
- How most students go to school?...................
- How many students all together go to by car and by bike?

....

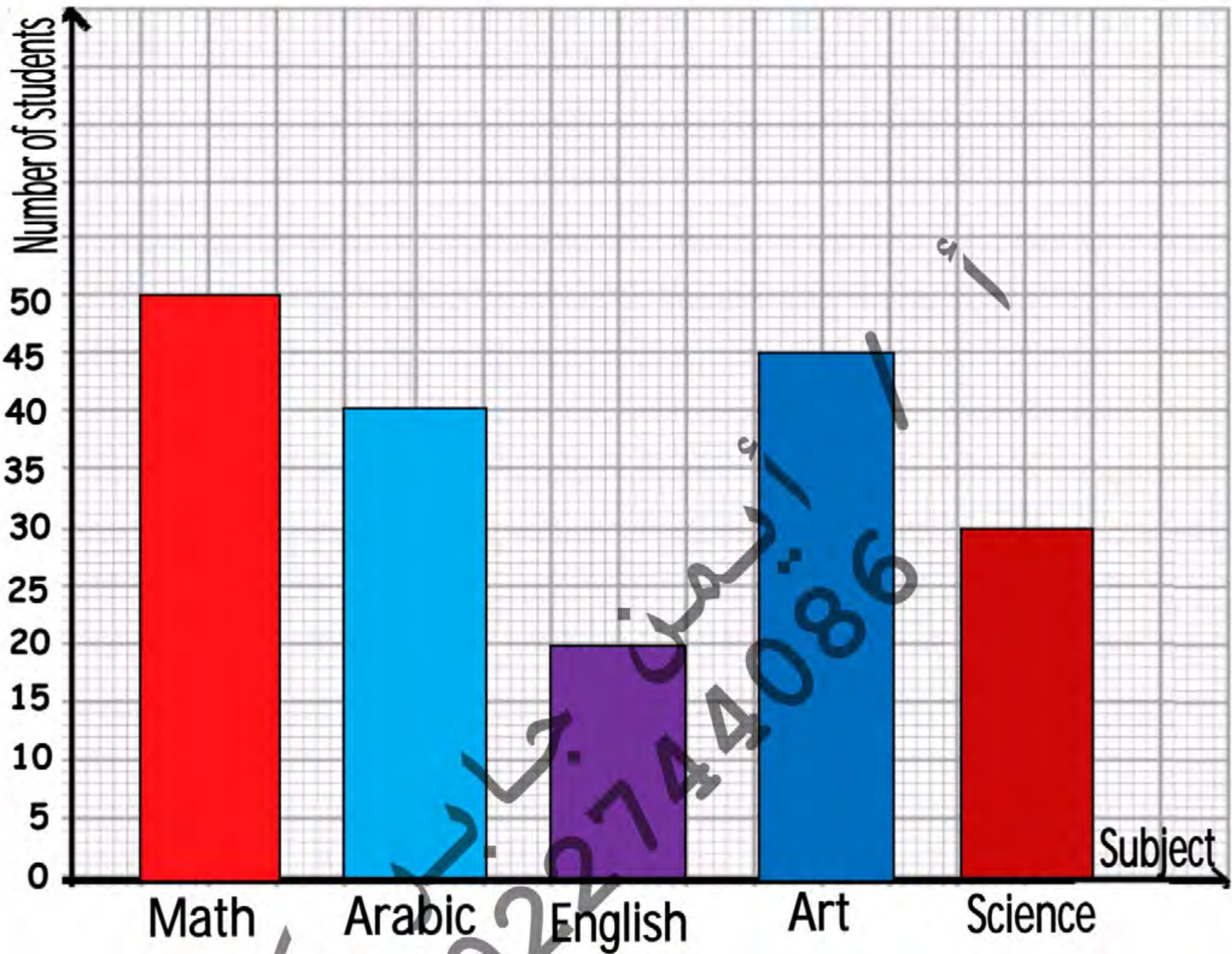
- How many students all together go to by bus and by car?

....

- How many students all together go to by car and by train?

....

Example: *A teacher recorded students' favorite subjects on the bar graph. Use the graph to answer the following questions:*



☞ *Answer the following questions:*

☞ *What is the most favorite subject for students?* ....

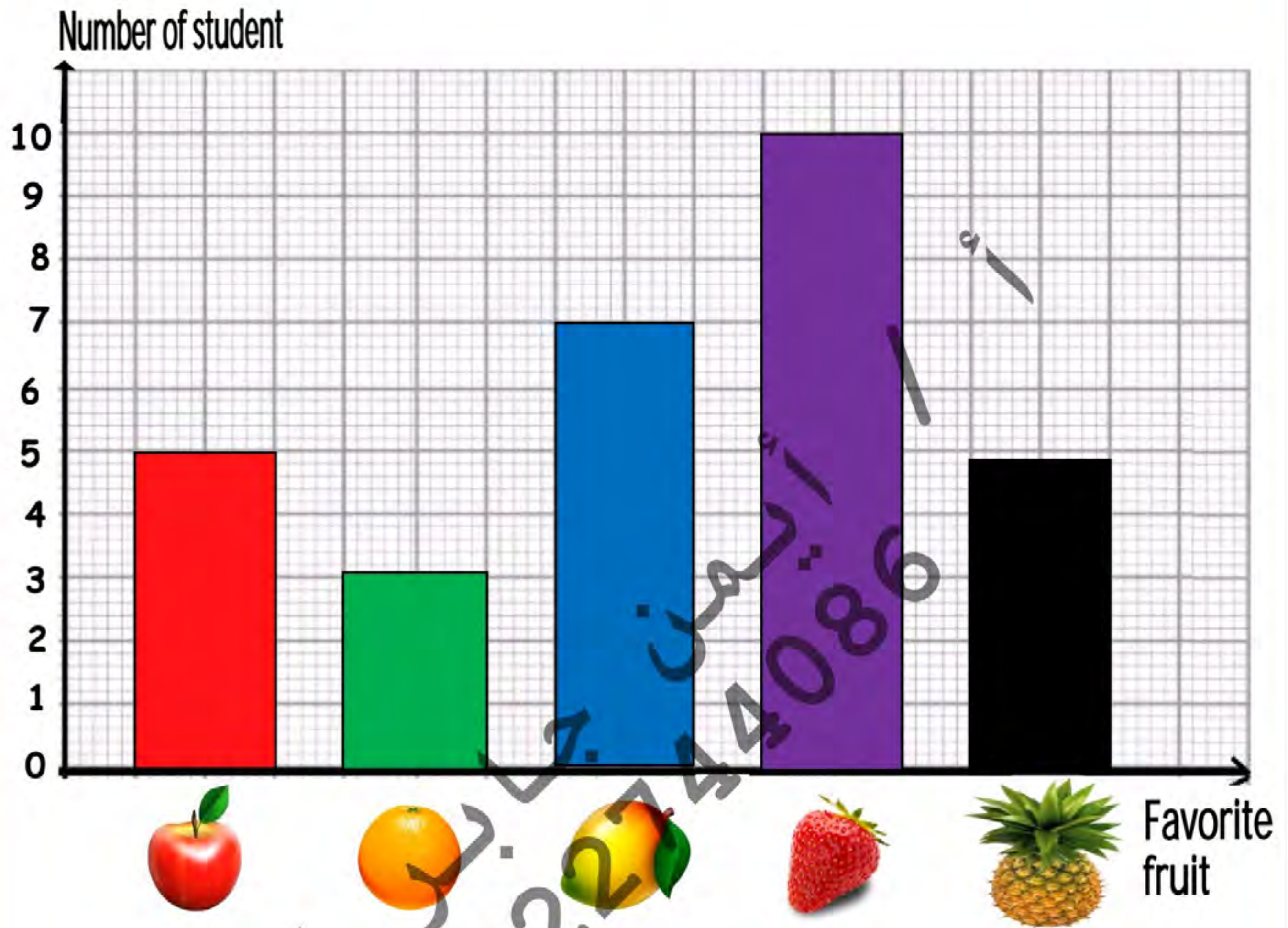
☞ *What subject students do not like?* ....

☞ *What is the favorite subject for 50 students?* ....

☞ *How many students all together liked Arabic and English?*

....

Example: Look at the favorite fruit graph and then answer the questions.



- What is the most favorite fruit for students? ....
- 2. How many students all together liked apples and orange?

  ....

- How many more students liked strawberries than orange? ?

  ....

- How many students like strawberry?

  ....

Pictograph

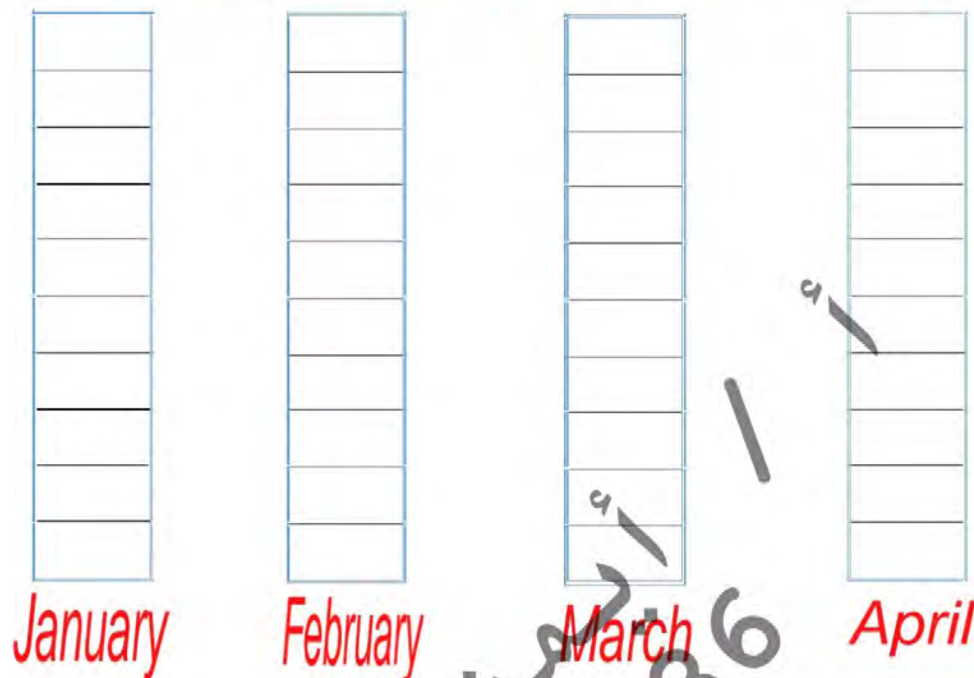
Pictograph: It is a graph to compare data using pictures or symbols

Example: *The following pictograph shows the number of apples sold in the store in the past 4 months.*



- What does the symbol represent? ....
- How many apples sold in April? ....
- How many apples sold in January? ....
- How many apples sold in March? ....
- How many apples all together sold in April and January? ....
- How many apples all together sold in January and March? ....

Use the previous apple pictograph to create bar graph:



Example: Arwa helps her mother in planting flowers in the garden. Try to know the flowers Arwa planted in the past few days by looking at the image below, then answer the following questions:

MONDAY	
TUESDAY	
WEDNESDAY	
THURSDAY	
FRIDAY	

Picture key:

 = One flower

 = Two flowers

✍ What does the symbol 🌸 represent? ....

✍ How many flowers Arwa planted on Wednesday? ....

✍ On what day did Arwa plant the fewest flowers? ....

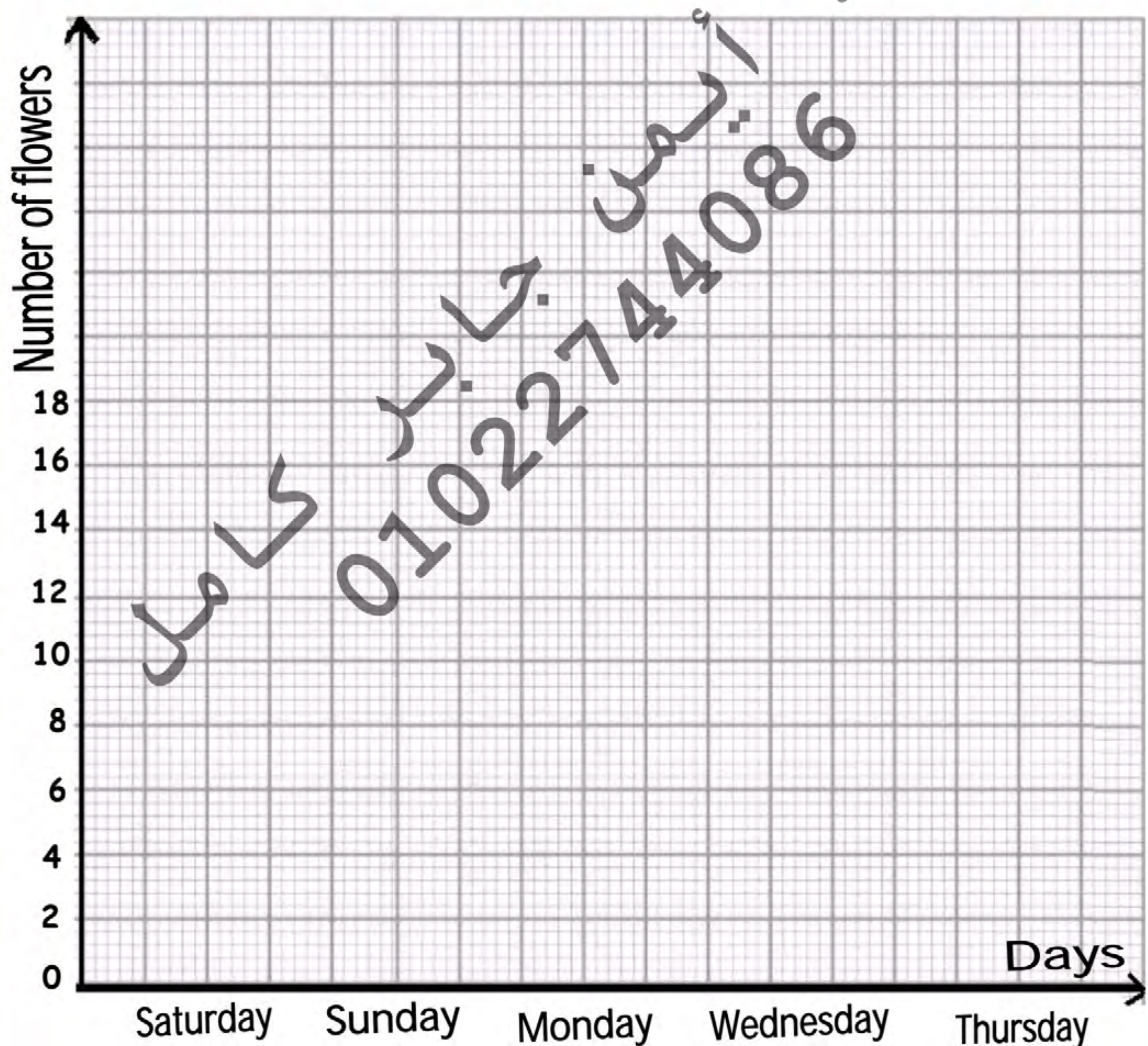
✍ On what day did Arwa plant many flowers? ....

✍ Draw symbols to represent 5 flowers.

....

....

✍ **Use the previous flowers pictograph to create bar graph:**





Notice, then complete:

2	4			10
10	8			2
6	8			14
5	10		20	
30	40			70
55	50		40	



Complete using the Suitable sign(> ، = ،<)

66	◯	36	86	◯	63
95	◯	59	6+60	◯	66
75	◯	43	13	◯	31
53	◯	89	55	◯	84
90	◯	50	99	◯	19
92	◯	62	81	◯	18



Complete:










































Mental Math:

The doubles mental math strategy:





1 + 1 =....



2 + 2 =....



3 + 3 =....



4 + 4 =....



5 + 5 =....



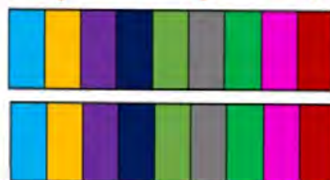
6 + 6 =....



7 + 7 =....



8 + 8 =....



9 + 9 =....



10 + 10 =....



Write the before and after number:























Use the mental math strategy to solve:

Circle the big number, then count from the left side:

Example: 6 + 4 = 10   start from number 6

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Circle the big number, then count from the right side:

Example: 19 - 7 = ...   start from number 19

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50



Use the number chart to find the results:

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

45 - 4 =

35 + 5 =

3 + 7 =

22 + 8 =

35 - 9 =

12 - 5 =



Use the number line to solve:



10 + 15 =	22 - 9 =	16 + 6 =
18 - 15 =	9 + 12 =	14 - 4 =
17 + 3 =	22 - 13 =	11 + 6 =
12 - 6 =	12 + 9 =	15 - 7 =

9 + 7 =	12 - 3 =	11 + 4 =

Ones and Tens



Write the number:

Tens	Ones		
9	9	=	
0	9	=	
4	6	=	
5	3	=	
2	7	=	

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Use the number chart to add and subtract (10):

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

22 + 10 =

43 - 10 =

31 + 10 =

15 - 10 =

30 + 10 =

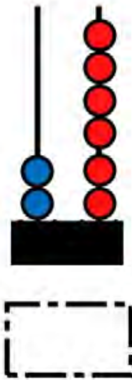
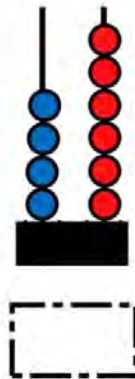
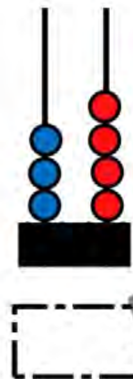
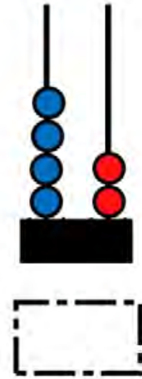
34 - 10 =

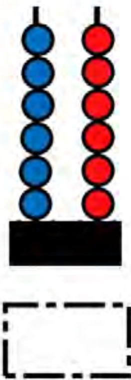
4 + 10 =

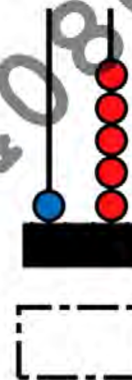
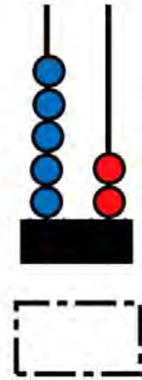
25 - 10 =

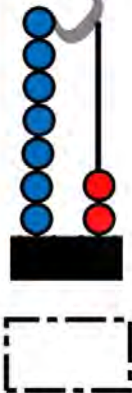
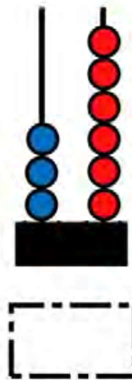


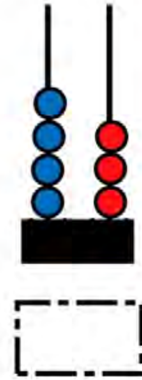
Count and write the number:





Components of number (10)



10

1 + 9
2 + 8
3 + 7
4 + 6
5 + 5

2 + 8

1 + 9

3 + 7

0 + 10 → **10** ← 4 + 6

5 + 5





=10



=10



=10



=10



=10



=10



Addition and Subtraction using Partition

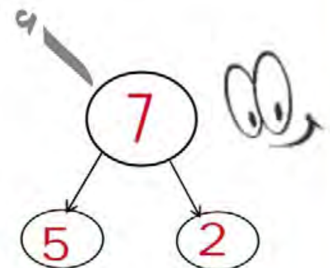
You can use the components of number (10):
Exampe: 6 + 7

You can part the number. Number 6 is 3 + 3 and the components of number 10 are 3 and 7 so you can rewrite using the components of number:

Example

3 + 7 =10

15 - 7 =
15 - 5 - 2 =
15 - 5 = 10
10 - 2 = 8





Complete using partition:

12 - 3	12 - .... =10	12 - 3 = ...
7 + 5	7 + ... =10	7 + 5 = ...
8 + 5	8 + ... =10	8 + 5 = ...
16 - 7	16 - .... =10	16 - 7 = ...
12 - 5	12 - .... =10	12 - 5 = ...
7 + 4	7 + ... =10	7 + 4 = ...
18 - 9	18 - .... =10	18 - 9 = ...
13 - 3	13 - .... =10	13 - 3 = ...

Word problems using mental math strategy



Read and and answer using mental math strategy:

Example 1 Ahmed has 5 books and Mohamed has 9 books. How many books all together they have?

Answer:

Example 2 A cage of 9 birds. 3 birds were left. How many birds are in the cage now?

Answer:

Example 3 Ayman has 8 pens and father gave him 10 pens. How many pens all together Ayman has?

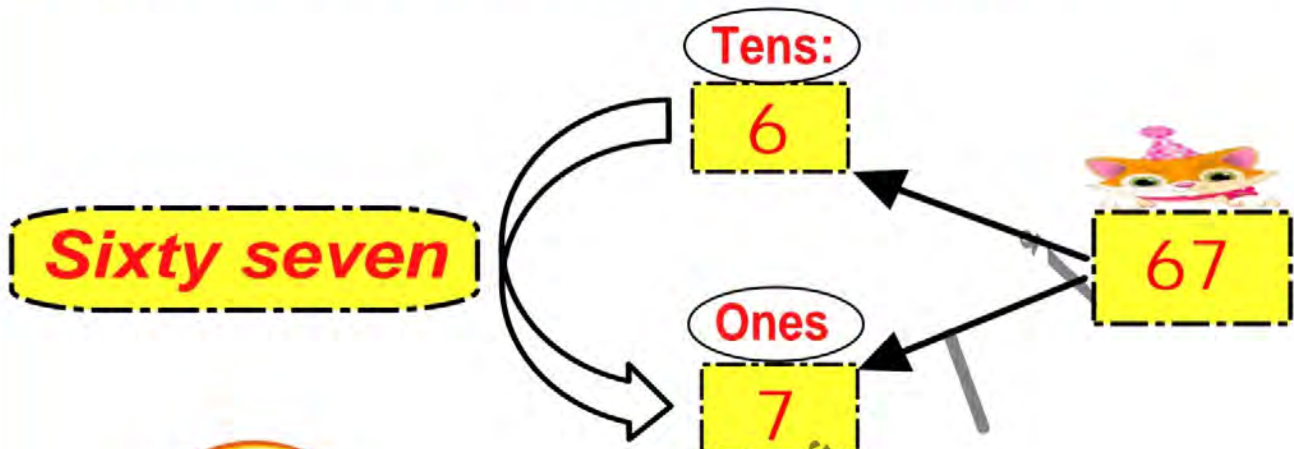
Answer:

Example 4 Omar caught 7 fish, then 5 fish. How many fish all together he has?

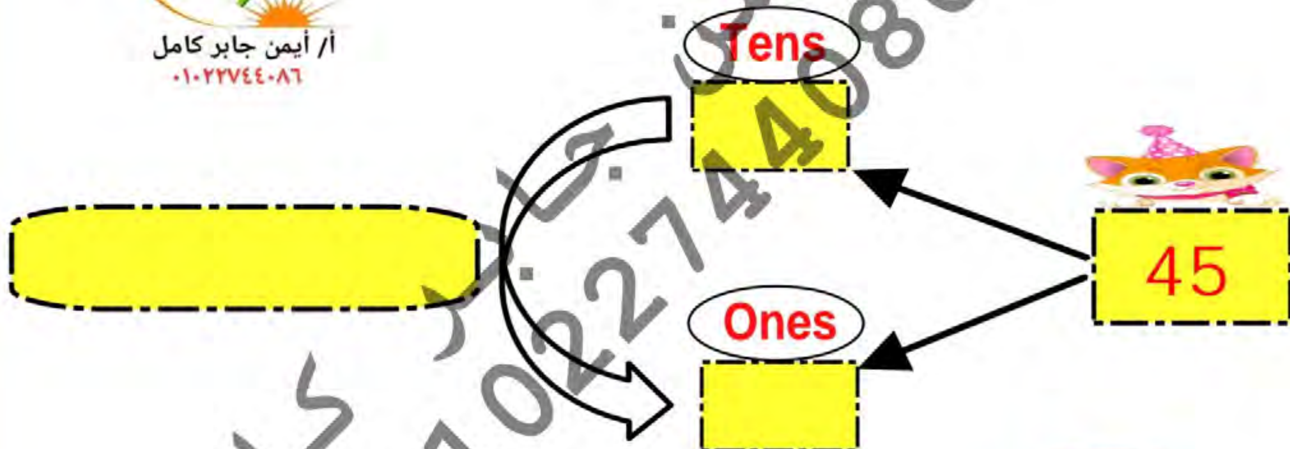
Answer:



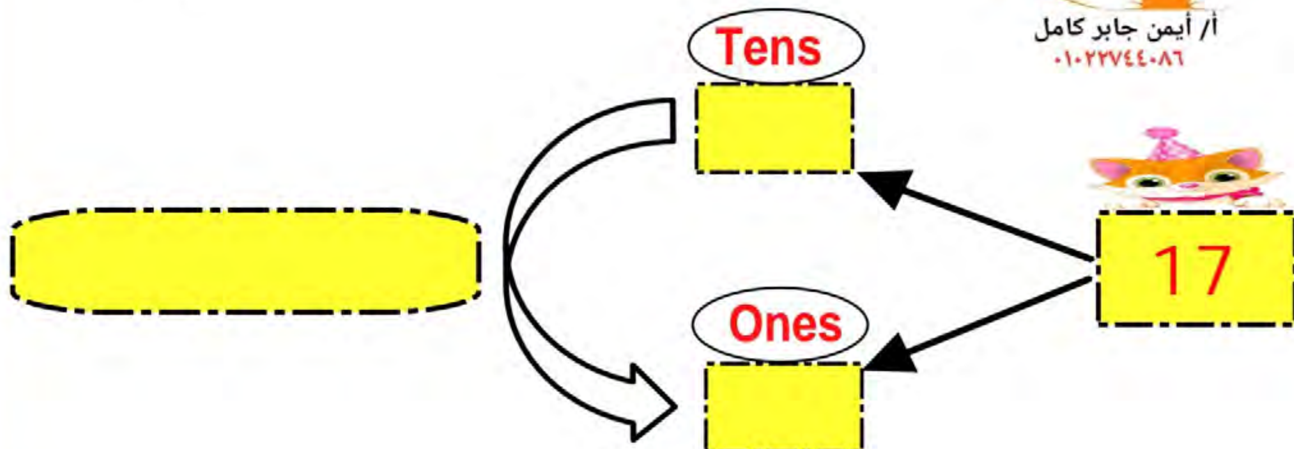
Read the numbers and write the ones & tens:











Tens
6

Ones
0

Tens

Ones

7 + 70

Tens
2

Ones

9 + ...

Sixty seven

Tens

Ones

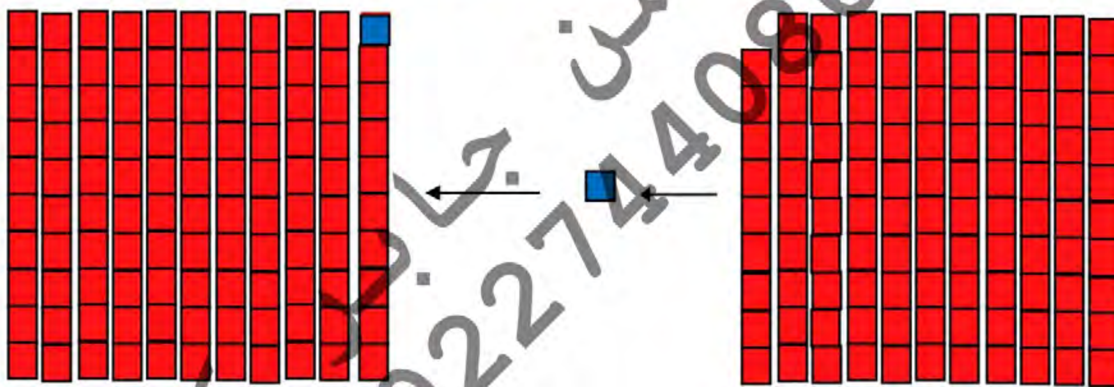
.... + ...

Count in hundreds

Remember:

9 is the biggest 1-digit number consisting of one number. If you want to know the following number add 1, then we get 10.
(10) is the smallest number consisting of 2-digit numbers.

99 is the biggest number consisting of 2- digit numbers. If you want to know the following number add 1, then we get 100.
(100) is the smallest number consisting of 3-digit numbers.



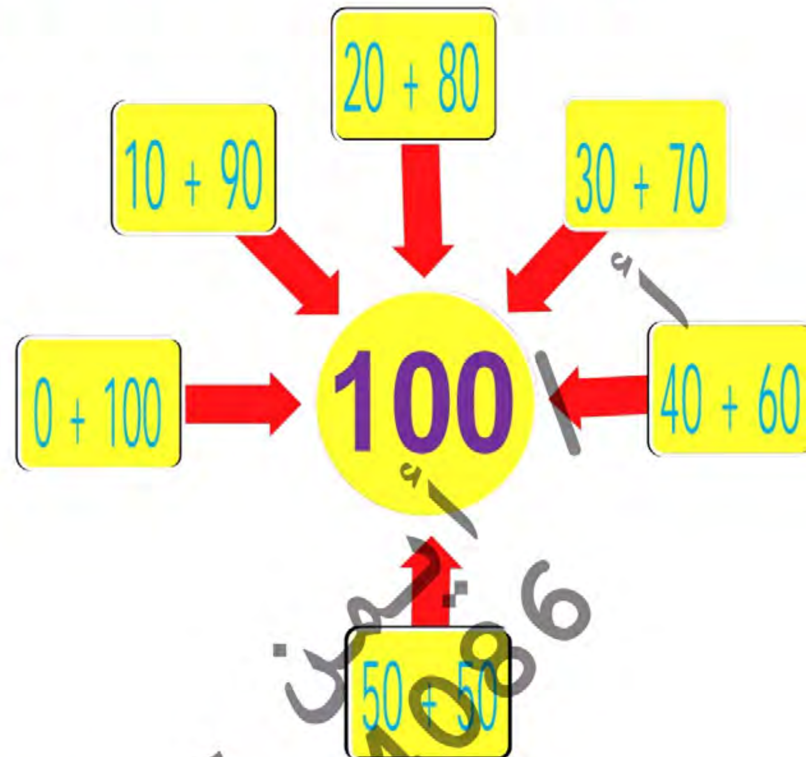
99 + 1 = 100



Components of number (100)



100
10 + 90
20 + 80
30 + 70
40 + 60
50 + 50







=100



=100



=100



=100



=100



=100

Remember:
8 tens + 2 tens = 10 tens
80 + 20 = 100



Complete:

1) 5 tens + 5 tens = ... tens.
.... + ... = ...

2) 4 tens + 6 tens = ... tens.
.... + ... = ...

3) .... + 7 tens = 10 tens.
.... + ... = ...

4) 8 tens + ... tens = ... tens.
.... + 20 = ...

5) 1 ten + ... tens = 10 tens.
.... + ... = ...

Doubles of number (100)


1 hundred = 100


2 hundreds = 200


3 hundreds = 300


4 hundreds = 400


5 hundreds = 500


6 hundreds = 600

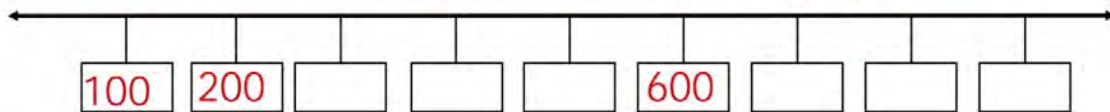

7 hundreds = 700


8 hundreds = 800


9 hundreds = 900



Write the missed numbers in its suitable place:





Write the numbers from 100 to 200:

Complete:

1) 1 hundred= .... tens.

2) 8 hundreds= .... tens.

3) 5 hundreds=.............tens.

4) 900 =................ hundreds.

5) 700 = ... hundreds.

6) 300 = ... hundreds.

Complete:



..... tens + 6 tens = 10 tens
40 + ... = 100

1 ten + ...tens = 10 tens
.... + 90 = 100



..... tens + 3 tens = 10 tens
70 + ... = 100

..... hundreds + ... hundreds = ... hundreds
400 + 200 = ...

7 hundreds + ... hundreds = ... hundreds
.... + 200 = ...



..... hundreds + ... hundreds = ... hundreds
400 + 300 = ...

900 - .... = 400

Complete:

 − 

.... - .... = ... pounds

 + 

.... + ... = ... pounds



.... + ... = ... pounds

 − 

.... - .... = ... pounds

The place value:

The place value: It is the value of the number if it is in ones, tens or hundreds or the value of a digit depending on its position within a number.

The digit value: It is the value of what is equal to the digit in a number.

Example:
The place value of 4 in 456 is hundreds and its numerical or digit value is 400 hundreds.

Complete:

1) The place value of 4 in 718 is ....

2) The place value of 8 in 978 is ....

3) The digit value of 5 in 225 is ....

4) The digit value of 4 in 641 is ....

Choose the correct answer:

1) The place value of 9 in 954 is ....
(ones - tens - hundreds)

2) The place value of 2 in 312 is ....
(ones - tens - hundreds)

3) The digit value of 6 in 867 is ....
(6 - 60 - 600)



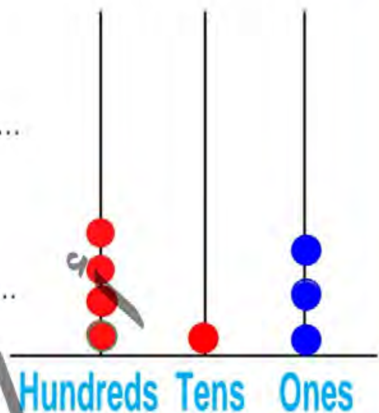
Complete:

Digit in numbers:

....

Digit in words:

....

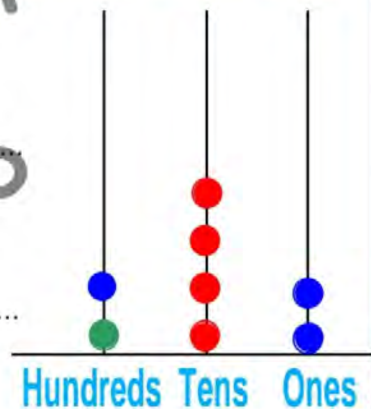


Digit in numbers:

....

Digit in words:

....

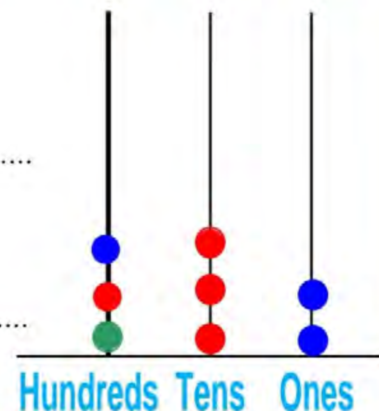


Digit in numbers:

....

Digit in words:

....

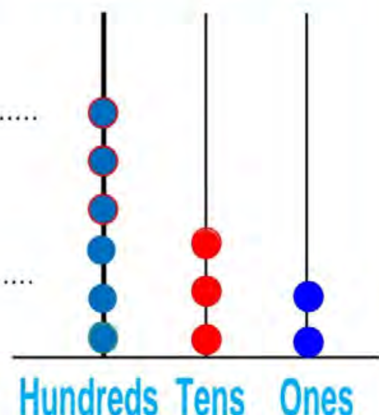


Digit in numbers:

....

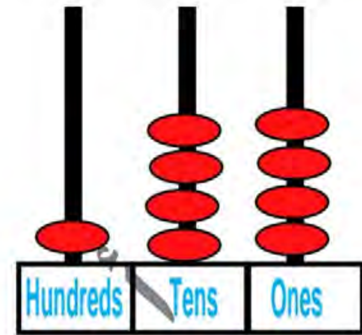
Digit in words:

....



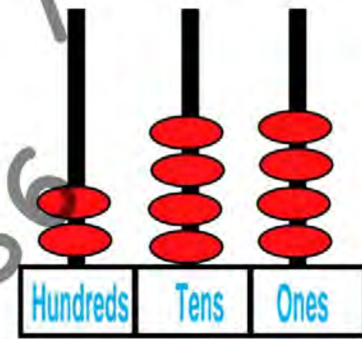


Complete as the example:



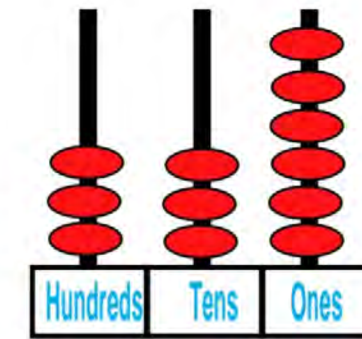
144

Hundreds	Tens	Ones
٢	٤	٤



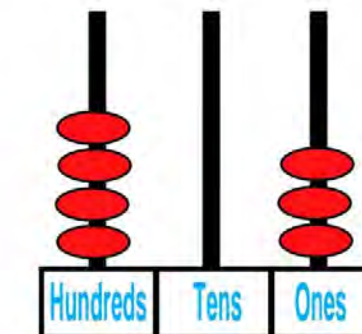
244

Hundreds	Tens	Ones
٢	٤	٤



....

Hundreds	Tens	Ones



....

Hundreds	Tens	Ones



Complete:



1) 4 ones, 5 tens and 2 hundreds = ...

2) 6 ones, 3 tens and 4 hundreds = ...

3) 2 ones, 5 tens and 7 hundreds = ...

4) 7 ones, 8 tens and 9 hundreds = ...



Complete:



1) 6 ones and 9 hundreds = ...

2) 3 tens and 6 hundreds = ...

3) 7 tens and 8 ones = ...

4) 5 hundreds, 7 tens and 7 ones = ...



Write in words:

1) 309 ....

2) 154 ....

3) 654 ....

5) 315 ....



Write in digits:

1) Nine hundreds = ...

2) Seven hundred forty-eight = ...

3) Three hundreds and five = ...

4) Five hundred fifty-five = ...

5) One hundred fourteen = ...

6) Six hundred twenty-nine = ...

7) Four hundred eighty-seven = ...

8) Eight hundred thirty-three = ...



Complete:

1) 624 =		ones		tens		hundreds
2) 154 =		ones		tens		hundreds
3) 458 =		ones		tens		hundreds
4) 301 =		ones		tens		hundreds
5) 586 =		ones		tens		hundreds
6) 605 =		ones		tens		hundreds
7) 931 =		ones		tens		hundreds
8) 809 =		ones		tens		hundreds



Choose the correct answer:

1) The digit value of 4 in 482 is ☐ (4 - 40 - 400).

2) The digit value of 7 in 719 is ☐ (7 - 70 - 700).

3) The digit value of 3 in 493 is ☐ (3 - 30 - 300).

4) The digit value of 0 in 801 is ☐ (0 - 10 - 100).

5) The digit value of 4 in 648 is ☐ (4 - 40 - 400).

6) The digit value of 6 in 695 is ☐ (6 - 60 - 600).





Complete as the example:

5 + 30 + 200 = 235

1) 6 + ... + 500 = 536

2) 7 + 50 + 800 = ...

3) ...... + ...+......... = 782

4) ...... + ...+......... = 853

5) ...... + ...+......... = 777

6) ...... + ...+......... = 909

7) ...... + ...+......... = 320

8) ...... + ...+......... = 231



Circle the correct digit as in the example:

7 tens and 8 hundreds

780 - 870 - 807 - 708

4 ones, 5 tens and 6 hundreds

564 - 654 - 456 - 645

9 ones and 2 hundreds

092 - 209 - 920 - 902

3 ones, 4 tens and 1 hundred

314 - 413 - 134 - 143

8 tens and 9 hundreds

980 - 890 - 809 - 908

8 ones, 5 tens and 6 hundreds

568 - 658 - 856 - 685

3 ones and 2 hundreds

032 - 203 - 320 - 302

5 ones, 4 tens and 1 hundred

514 - 415 - 154 - 145

سلسلة التفوق فى الرياضيات ... أ // أيمن جابر كامل



Complete the table:

Digit	add1	add 10	add 100
879			
799			
145			
14			
594			



Complete the table:

Digit	subtract 1	subtract 10	subtract 100
579			
299			
645			
34			
994			

سلسلة التفوق فى الرياضيات ... أ // أيمن جابر كامل



Complete using (<), (>) or (=):



7 hundreds and 5 ones ☐ 500 + 7

9 hundreds and 6 ones ☐ 778

6 hundreds ☐ 60 tens

224 ☐ 345

899 ☐ 889



Complete as the example:

1) 750 comes before 751.

2) 720 comes after 719.

3) 314 comes before .....

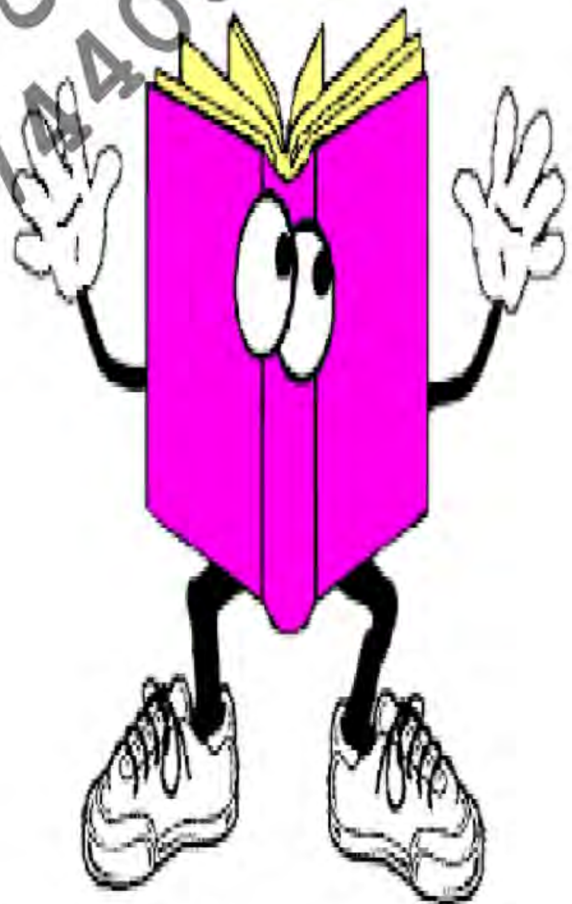
4) 258 comes after ......

5) 720 comes before ....

6) 780 comes after ......

7) 614 comes before .....

8) 458 comes after ......



سلسلة التفوق فى الرياضيات ... أ // أيمن جابر كامل



Arrange the numbers from least to greatest (ascending):

459 - 518 - 428 - 580 - 400

……………… ، ……………… ، ……………… ، ……………… ، …………

199 - 220 - 174 - 215 - 147

……………… ، ……………… ، ……………… ، ……………… ، ………………

629 - 620 - 674 - 615 - 647

……………… ، ……………… ، ……………… ، ……………… ، ………………

332 - 500 - 847 - 750 - 621

……………… ، ……………… ، ……………… ، ……………… ، ………………



Arrange the numbers from greatest to least (descending):

972, 909, 929, 913, 954

……………… ، ……………… ، ……………… ، ……………… ، ………………

799, 843, 751, 739, 815

……………… ، ……………… ، ……………… ، ……………… ، ………………

286, 425, 357, 624, 647

……………… ، ……………… ، ……………… ، ………………

246, 455, 327, 634, 687

……………… ، ……………… ، ……………… ، ………………



Circle the greater number:

246 - 455	316 - 154	887 - 885
310 - 380	657 - 765	702 - 597



Circle the smaller number:

656 - 565	451 - 541	440 - 404
274 - 247	688 - 886	74 - 47



Complete the table as example:

Digit	The small number	The great number
1 - 5 - 4	145	154
9 - 8 - 1		
5 - 0 - 4		
2 - 7 - 3		
8 - 2 - 4		





Complete in the same pattern:

808 807   

900 700   



Write the greater and smaller number:

9 - 8 - 1 The great number .... The small number	5 - 0 - 8 The great number .... The small number ....
3 - 4 - 2 The great number .... The small number	9 - 4 - 7 The great number .... The small number ....
0 - 2 - 7 The great number .... The small number	3 - 8 - 1 The great number .... The small number ....



Complete:



1) .... comes before 456
2) .... comes after 456
3) .... is the greatest number of the digit 1 - 5 - 8
4) .... is the smallest number of the digit 1 - 8 - 2
5) .... is the greatest 3-digit number.
6) ..... is the greatest 2-digit number.

Addition and subtraction



5 + 3 = 18



$$10 + 3 + 5 = 10 + 8 = 18$$

- **Add:**

410 + 105 = ...	280 + 317 = ...	811 + 118 = ...	35 + 42 = ...
815 + 135 = ...	220 + 817 = ...	822 + 608 = ...	43 + 56 = ...
818 + 415 = ...	564 + 318 = ...	684 + 546 = ...	95 + 11 = ...

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سلسلة التفوق فى الرياضيات ... أ // أيمن جابر كامل

- **Add:**

518 + 211 = ...	620 + 357 = ...	420 + 128 = ...	22 + 58 = ...
458 + 568 = ...	220 + 885 = ...	812 + 689 = ...	98 + 67 = ...
179 + 135 = ...	280 + 817 = ...	422 + 608 = ...	65 + 52 = ...
888 + 485 = ...	544 + 368 = ...	624 + 526 = ...	98 + 10 = ...
866 + 985 = ...	548 + 363 = ...	224 + 326 = ...	48 + 15 = ...

سلسلة التفوق فى الرياضيات ... أ // أيمن جابر كامل

- **Add:**

517	629	428	20
+ 111	+ 257	+ 328	+ 78
....	....	....	....
558	420	612	99
+ 968	+ 785	+ 289	+ 37
....	....	....	....
779	980	322	65
+ 155	+ 847	+ 609	+ 52
....	....	....	....

1) 200 +.......... = 782

2) ....+.......... = 853

3) .... + 584 = 777

4) 564 + 546 = ...

5) 208 +.......... = 320

6) 745 + 578 = ...



Complete using (<), (>) or (=):



8 hundreds and 5 ones		545 + 1
2 hundreds and 8 ones		745
7 hundreds		65 tens
114		795
449		850

Read and complete:

1) Amer has 375 pounds and his father gave him 250 pounds.

Amer has = ... pounds.

2) Ahmed has 238 pounds and his brother gave him 179 pounds.

Ahmed has = ... pounds.

3) 564 visited the zoo on Sunday. 389 visited on Monday.

How many visitors all together visited the zoo on Sunday and on Monday?

Visitors on Sunday and on Monday = ... visitors.

4) Asmaa bought a toy (356 pounds) and a mobile (541 pounds).

Asmaa paid = ... pounds.

- **Complete:**

1) 8 ones, 6 tens and 4 hundreds = ...

2) 964 = ... + ... + ...

3) 735 = ... ones, ... tens and .... hundreds.

4) 318 comes before .....

5) 720 comes before ......

Subtraction:

- **Subtract:**

517	629	428	90
- 111	- 257	- 328	- 78
....	....	....	....
558	820	612	99
- 368	- 785	- 289	- 37
....	....	....	....

- **Subtract:**

518 - 211 = ...	620 - 357 = ...	420 - 128 = ...	62 - 58 = ...
658 - 568 = ...	920 - 885 = ...	812 - 689 = ...	98 - 67 = ...
179 - 135 = ...	980 - 817 = ...	722 - 608 = ...	65 - 52 = ...
888 - 485 = ...	544 - 368 = ...	624 - 526 = ...	98 - 10 = ...
866 - 385 = ...	548 - 363 = ...	824 - 326 = ...	48 - 15 = ...

- **Subtract:**

1) 900 - .... = 782

2) .... - .... = 853

3) ...... - 584 = 777

4) 564 - 546 = ...

5) 300 - .... = 105

6) .... - .... = 553

7) ...... - 533 = 122

8) 512 - 125 = ...

9) ...... - 482 = 218

10) 578 - 321 = ...



Complete using (<), (>) or (=):

516 - 485	☐	980
494 - 99	☐	100
455 - 125	☐	782 - 545
466 - 401	☐	986 - 810
615 - 452	☐	492 - 137



Complete in the same pattern:

1) 894, 884, 874, ..., ..., ..., ...

2) 200, 215, 230, ..., ..., ..., ...

3) 432, 533, 634, ..., ..., ..., ...

4) 650, 600, 550, ..., ..., ..., ...

5) 950, 940, 930, ..., ..., ..., ...

6) 200, 250, 300, ..., ..., ..., ...

7) 411, 511, 611, ..., ..., ..., ...

8) 950, 900, 850, ..., ..., ..., ...

9) 794, 784, 774, ..., ..., ..., ...

10) 211, 311, 411, ..., ..., ..., ...

11) 430, 530, 630, ..., ..., ..., ...

12) 150, 200, 250, ..., ..., ..., ...

13) 220, 240, 260, ..., ..., ..., ...

14) 430, 530, 630, ..., ..., ..., ...

15) 800, 700, 600, ..., ..., ..., ...

سلسلة التفوق فى الرياضيات ... أ // أيمن جابر كامل

- **Add:**

557 + 115 = ...	827 + 205 = ...	457 + 325 = ...	47 + 75 = ...
501 + 904 = ...	441 + 704 = ...	671 + 204 = ...	81 + 34 = ...

- **Subtract:**

598 - 245 = ...	698 - 345 = ...	489 - 124 = ...	68 - 45 = ...
625 - 596 = ...	952 - 896 = ...	852 - 696 = ...	95 - 66 = ...

سلسلة التفوق فى الرياضيات ... أ // أيمن جابر كامل

Polygons

Polygon is a closed shape formed with stright lines.



Not a polygon



4 sides



3 sides



4 sides



5 sides



4 sides



6 sides



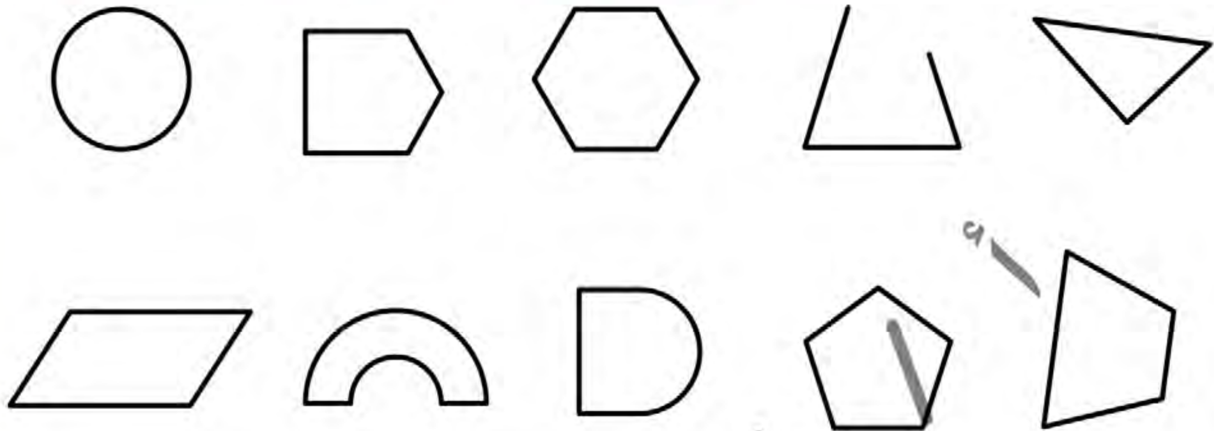
4 sides



10 sides

The stright lines that form the polygon are called sides, and the points where two edges meet are the polygon's vertices or corners.

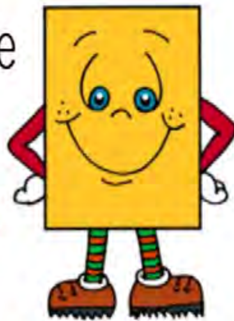
Put (✓) under every polygon:



* Complete the table:

Shape	Name of the shape	Number of sides	Number of vertices
	....	....	....
	....	....	....
	....	....	....

Rectangle
4 sides
4 vertices



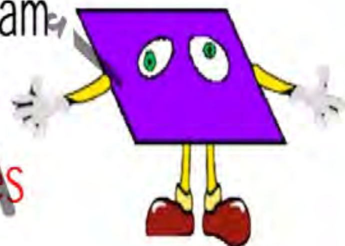
Square
4 sides
4 vertices



Rhombus
4 sides
4 vertices



parallelogram
4 sides
4 vertices



Pentagon
5 sides
5 vertices



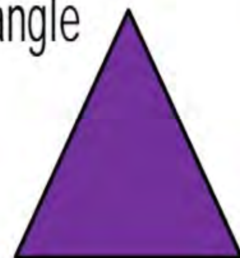
Trapezoidal
4 sides
4 vertices



Hexagon
6 sides
6 vertices



triangle
3 sides
3 vertices





Number of sides = Number of vertices

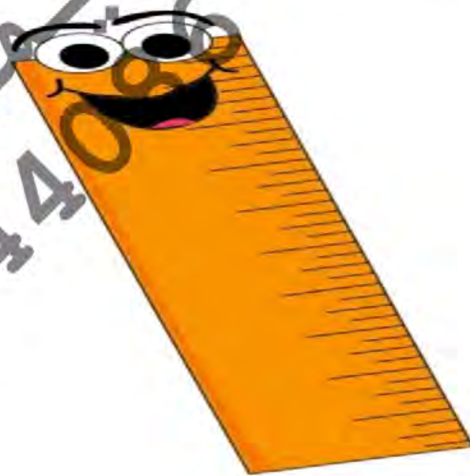
Length Measurement



Lengths are measured in meters and centimeters.
Meter is used to measure large lengths such as buildings.
Centimeter is used to measure small lengths such as the pen.

Meter = 100 centimeter = 100 cm

*** Complete:**



1) 7 meters = ... cm
2) 5 meters = ... cm
3) 9 meters = ... cm
4) 2 meters = ... cm

• Complete as the example:

8 meters and 20 centimeters = 800 + 20 = 820 cm.

1) 9 meters and 50 centimeters = ... + ... = ... cm.
2) 1 meter and 75 centimeters = ... + ... = ... cm.
3) 7 meters and 60 centimeters = ... + ... = ... cm.
4) 3 meters and 13 centimeters = ... + ... = ... cm.
5) 8 meters and 23 centimeters = ... + ... = ... cm.

• Complete:

1) 2 meters and 10 centimeters = ... + ... = ... cm.
2) 4 meter and 15 centimeters = ... + ... = ... cm.
3) 6 meters and 66 centimeters = ... + ... = ... cm.
4) 8 meters and 83 centimeters = ... + ... = ... cm.
5) 3 meters and 33 centimeters = ... + ... = ... cm.
6) ..... meters and 50 centimeters = ... + ... = 850 cm.
7) 1 meter and .... centimeters = ... + ... = 158 cm.
8) 7 meters and .... centimeters = ... + 50 = ... cm.
9) ..... meters and 13 centimeters = 500 + ... = ... cm.
10) .... meters and .... centimeters = 200 + 18 = ... cm.

• Complete using (<), (>) or (=):

8 meters and 20 centimeters	☐	920 cm
2 meters and 45 centimeters	☐	120 cm
5 meters and 25 centimeters	☐	925 cm
6 meters and 43 centimeters	☐	900 cm
3 meters and 85 centimeters	☐	20 cm
9 meters and 5 centimeters	☐	90 cm

Arrange from least to greatest (ascending):

80 cm, 50 cm, 90 cm, 20 cm, 85 cm, 75 cm.

........, ..., ..., ..., ..., ...

525 cm, 285 cm, 534 cm, 545 cm, 536 cm, 531 cm.

........, ..., ..., ..., ..., ...

70 cm, 80 cm, 52 cm, 22 cm, 85 cm, 77 cm.

........, ..., ..., ..., ..., ...

45 cm, 78 cm, 98 cm, 74 cm, 85 cm, 12 cm.

........, ..., ..., ..., ..., ...

three-dimensional shape (3D shapes)

Solids

Rectangular prism (cuboid)	Triangular Prism	Cylinder
Square based pyramid	Cube	Cone





Sphere

the number of faces, edges, and vertices:

Solid	Faces	Edges	Vertices
Cube	6	12	8
Rectangular prism	6	12	8
Triangular pyramid	4	6	4
Square based pyramid	5	8	5



Solid	Faces	Edges	Vertices
Cylinder	0	0	0
Sphere	0	0	0
Cone	0	0	1
Triangular Prism	5	9	6



Solid	Faces	Edges	Vertices
Cylinder	....	....	....
Sphere	....	....	....
Cone	....	....	....
Triangular Prism	....	....	....



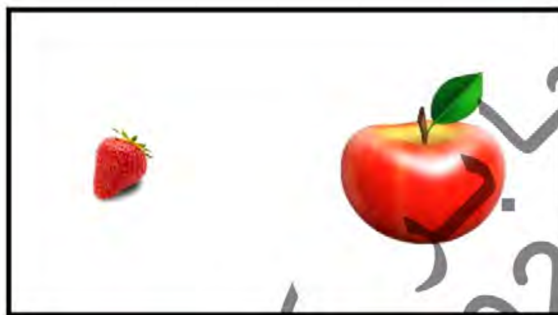


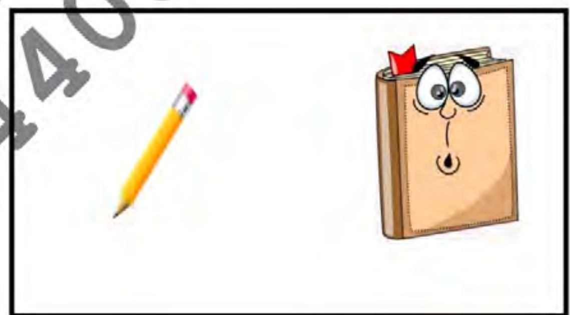
Measuring the weight

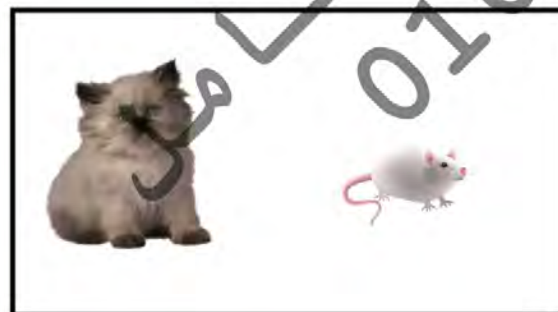
We measure the weight using: gram and kilogram.
We measure heavy things such as meat or fruits by kilogram.
We measure light things such as gold and silver by gram.

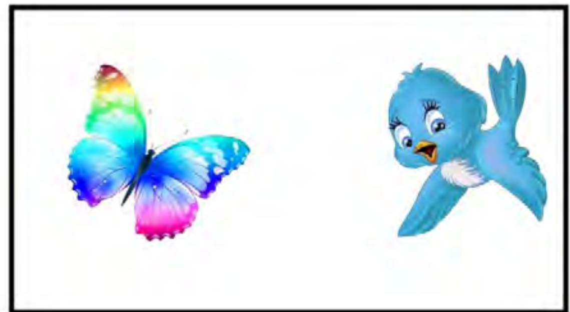


Put (✓) under the lighter:







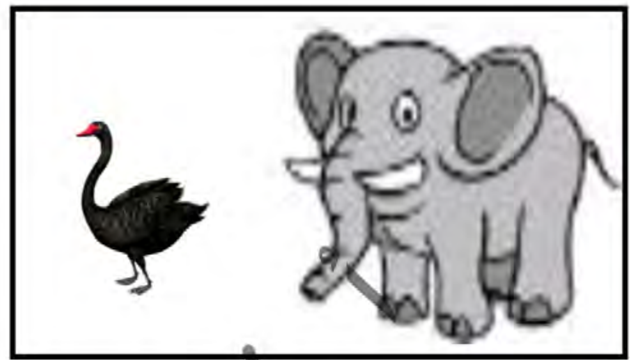






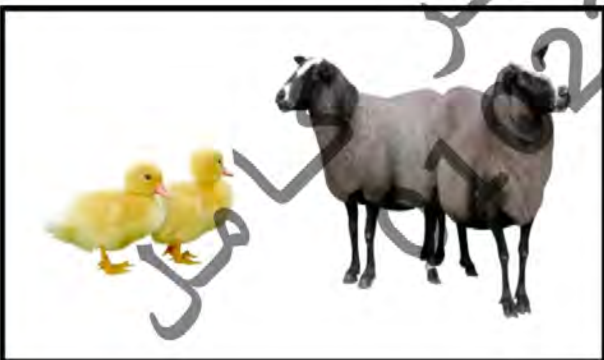
Put (✓) under the heavier:

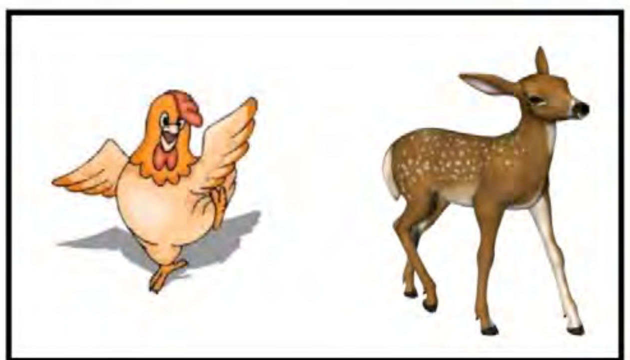


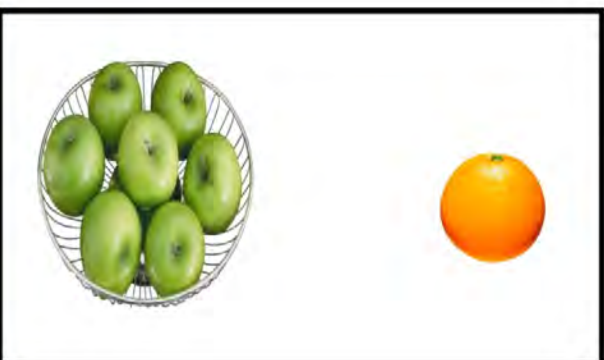














Arrange from lighter to heavier:


( )


( )


( )


( )


( )


( )


( )


( )

Arrange from heavier to lighter::


( )


( )


( )


( )


( )


( )


( )


( )

Real life problems:

✍ Mohamed bought 62 kilograms rice and 35 kilograms tomato. How many kilograms all together Mohamed has?

Mohamed has = ... + ... = ... kilograms.

✍ Asmaa is 50 kilograms. Asmaa and Arwa are 74 kilograms. How much does Arwa weigh?

Arwa is = ... - .... = ... kilograms.

✍ One pen is 12 gram. How much do two pens weigh?

Two pens = ... + ... = ... grams.

✍ Mustafa bought a book (53 grams), a pencil (48 grams) and a pen (14 grams). How many grams all together?

A book, pencil and pen are = ... +........ + ... = ... grams.





Time







One day = 24 hours.

the day starts from 12:00 after midnight.

What is the time?



.... : ....



....



.... : ....



....



.... : ....



....

write the time in words:





.... : ....

....

.... : ....





....

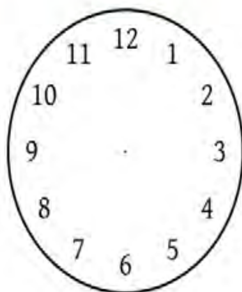
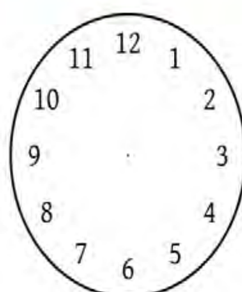
.... : ....

....

Hour = 60 minutes

Half hour = 30 minutes

Show the time on the clock:


01:20 11:15 12:45

Real life problems:

Example 1 Ahmed ordered pizza at 5 : 00 and he delivered it after 30 minutes. When did the pizza arrive?





Example 2 Muhammad leaves the house at 7 : 00 every day, and arrives to school within 30 minutes. When does Muhammad arrive to school?





Example 3 Omar went to the zoo at 8 : 30 pm and stayed there for 3 hours. When did Omar leave the zoo?





